<u>Remarks</u>

Claims 1-15 are pending. Claims 3-15 are withdrawn pursuant to a restriction requirement. Applicants eliminated a transcription error from the preamble in claim 1. The amendment clarifies the intended subject matter and is primarily a matter of form. No new matter has been added.

The proposed amendment does not introduce a new patentable feature. Rather, the amendment is simply meant to eliminate a redundant phrase mistakenly introduced during prosecution. The amendment addresses the only pending rejection and places the case in condition for allowance. For all of the above reasons, Applicants submit that good cause exists to enter the amendment even though presented after final rejection.

The Examiner rejects claims 1 and 2 under 35 U.S.C. 112(2) as being indefinite for failing to particularly point out and distinctly claim the intended subject matter. The Examiner objected to the form of the preamble as being ambiguous. The amendment set forth above addresses this objection and places this case in condition for allowance.

Claim 4 is drawn to a non-elected species. Claim 1 is a generic claim and now believed to be in condition for allowance. Applicants request that claim 4 be rejoined with the remaining species claims of Group I. Claims 5-8, 11 and 14 are drawn to processes for making the patentable compounds. To the extent that the compounds are patentable, a process for making such compounds must also be patentable. Applicants further request that the process claims of Groups II, V and VIII be rejoined with Group I. Rejoining the groups will be in the best interests of all parties by reducing the number of future applications.

PL/2-21988/A

09/518,464

Applicants submit that the instant application is now in condition for allowance. In the event that minor amendments will further prosecution, Applicants request that the Examiner contact the undersigned representative.

Ciba Specialty Chemicals Corporation 540 White Plains Road P.O. Box 2005 Tarrytown, New York 10591-9005 Tel: (914) 785-7124 Fax: (914) 785-7102 DRC/ Respectfully submitted,

David R. Crichton Attorney for Applicants Reg. No. 37,300

09/518,464

-8-

PL/2-21988/A

Amended Claims with underlining and bracketing

1. (Twice Amended) A compound of the formula A compound of the formula (la), (lb) or (lc)

$$Q_1 = X_1$$
 $Q_1 = X_2 = Q_1$ $Q_1 = X_2 = Q_2$
(Ia) (Ib) (Ic)

in which

 Q_1 is a benzofuran-2-one of the formula (IIa), and Q_2 is a benzofuran-2-one of the formula (IIb)

$$R_3$$
 R_2
 R_1
 R_2
 R_3
 R_2
 R_1
 R_2
 R_3
 R_4
 R_3
 R_2
 R_1
 R_2
 R_3
 R_4
 R_2
 R_3
 R_4
 R_3
 R_4
 R_3
 R_4
 R_4
 R_4
 R_4
 R_5
 R_7
 R_7

in which

 R_1 , R_2 , R_3 , R_4 , R_{100} , R_{200} , R_{200} or R_{400} independently of one another are hydrogen, halogen, hydroxyl, cyano, ether, nitro, an amine, amide, imine, urethane, sulfonamide, ester, carboxylic acid or sulfonic acid radical or carboxylic salt, sulfonic salt or C1-C24alkyl, C1-C24alkoxy, C1-C24alkylthio, C5- $C_{12} \\ \text{cycloalkyl, } C_5 - C_{12} \\ \text{cycloalkoxy, } C_5 - C_{12} \\ \text{cycloalkylthio, } C_2 - C_{24} \\ \text{alkenyl, } C_6 - C_{24} \\ \text{aryl, } C_7 - C_{25} \\ \text{aralkyl, } C_8 - C_{24} \\ \text{aryl, } C_8 - C_{24} \\ \text{aryl$ Ce-C24aryloxy, Ce-C24arylthio, thienyl, benzo[b]thienyl, dibenzo[b,d]thienyl, thianthrenyl, furyl, furfuryl, 2H-pyranyl, benzofuranyl, isobenzofuranyl, benzimidazolyl, benzothiazolyl, dibenzofuranyl, phenoxythiinyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, bipyridyl, triazinyl, pyrimidinyl, pyrazinyl, pyridazinyl, indolizinyl, isoindolyl, indolyl, indazolyl, purinyl, quinolizinyl, quinolyl, isoquinolyl, phthalazinyl, naphthyridinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, carbazolyl, carbolinyl, benzotriazolyl, benzoxazolyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl or phenoxazinyl, O-thienyl, O-benzo[b]thienyl, Odibenzo[b,d]thienyl, O-thianthrenyl, O-furyl, O-furfuryl, O-2H-pyranyl, O-benzofuranyl, O-isobenzofuranyl, O-benzimidazolyl, O-benzothiazolyl, O-dibenzofuranyl, O-phenoxythiinyl, O-pyrrolyl, Oimidazolyl, O-pyrazolyl, O-pyridyl, O-bipyridyl, O-triazinyl, O-pyrimidinyl, O-pyrazinyl, O-pyridazinyl, Oindolizinyl, O-isoindolyl, O-indolyl, O-indazolyl, O-purinyl, O-quinolizinyl, O-quinolyl, O-isoquinolyl, Ophthalazinyl, O-naphthyridinyl, O-quinoxalinyl, O-quinazolinyl, O-cinnolinyl, O-pteridinyl, O-carbazolyl, O-carbolinyl, O-benzotriazolyl, O-benzoxazolyl, O-phenanthridinyl, O-acridinyl, O-perimidinyl, Ophenanthrolinyl, O-phenazinyl, O-isothiazolyl, O-phenothiazinyl, O-isoxazolyl, O-furazanyl or O-

09/518,464 - 9 - PL/2-21988/A

ph noxazinyl, S-thi nyl, S-benzo[b]thienyl, S-dib nzo[b,d]thienyl, S-thianthrenyl, S-furyl, S-furyl, S-gurfuryl, S-2H-pyranyl, S-benzofuranyl, S-isobenzofuranyl, S-benzimidazolyl, S-benzothiazolyl, S-dibenzofuranyl, S-phenoxythiinyl, S-pyrrolyl, S-imidazolyl, S-pyrazolyl, S-pyridyl, S-bipyridyl, S-triazinyl, S-pyrimidinyl, S-pyrazinyl, S-pyridazinyl, S-indolizinyl, S-isoindolyl, S-indolyl, S-indazolyl, S-purinyl, S-quinolizinyl, S-quinolyl, S-quinolizinyl, S-quinolizinyl, S-carbolinyl, S-naphthyridinyl, S-quinoxalinyl, S-quinazolinyl, S-cinnolinyl, S-pteridinyl, S-carbazolyl, S-benzotriazolyl, S-benzotriazolyl, S-phenanthridinyl, S-acridinyl, S-primidinyl, S-phenanthridinyl, S-phenazinyl, S-isothiazolyl, S-phenothiazinyl, S-isoxazolyl, S-furazanyl or S-phenoxazinyl,

or

R₁ and R₂, R₂ and R₃, R₃ and R₄ or R₁₀₀ and R₂₀₀, or R₂₀₀ and R₃₀₀, R₃₀₀ and R₄₀₀, independently of one another in each case together are divalent radicals, such as polycyclic radicals or 1,3-butadien-1,4-ylene or -CH=CH-NH-, the two last radicals forming an additional fused-on 5-or 6-membered ring, and

 X_1 is a hydrazone or imine radical, with the proviso that, if R_1 , R_2 , R_3 and R_4 are hydrogen, or at least one R_1 , R_2 , R_3 or R_4 is methyl, the hydrazone radical is excluded, or, if R_1 , R_2 , R_3 or R_4 is hydrogen, X_1 is not phenylimine- or 4-dimethylamine-phenylimine, or X_1 is a methylene radical,

$$=c\sum_{Q_3}^{Q_3}$$

in which

Q₃ is a primary or secondary amine radical and Q₄ is hydrogen or C₁-C₂₄alkyl, -CO-(C₁-C₂₄alkyl), -CO-O-(C₁-C₂₄alkyl), C₁-C₂₄alkoxy, C₁-C₂₄alkylthio, C₂-C₁₂cycloalkyl, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkylthio, C₂-C₂₄alkylthio, C₆-C₂₄aryl, -CO-O-(C₆-C₂₄aryl), -CO-(C₆-C₂₄aryl), C₆-C₂₄aryloxy, a primary or secondary amine radical, C₅-C₁₂arylthio, C₇-C₂₅aralkyl, thienyl, benzo[b]thienyl, dibenzo[b,d]thienyl, thianthrenyl, furyl, furfuryl, 2H-pyranyl, benzofuranyl, isobenzofuranyl, benzimidazolyl, benzothiazolyl, dibenzofuranyl, phenoxythiinyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, bipyridyl, triazinyl, pyrimidinyl, pyrazinyl, pyridazinyl, indolizinyl, isoindolyl, indolyl, indazolyl, purinyl, quinolizinyl, quinolyl, isoquinolyl, phenathridinyl, naphthyridinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, carbazolyl, carbolinyl, benzotriazolyl, benzoxazolyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenathrolinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl or phenoxazinyl O-thienyl, O-benzo[b]thienyl, O-dibenzo[b,d]thienyl, O-thianthrenyl, O-furyl, O-furfuryl, O-2H-pyranyl, O-benzofuranyl, O-isobenzofuranyl, O-benzimidazolyl, O-benzothiazolyl, O-dibenzofuranyl, O-benzofuranyl, O-benzofuranyl, O-dibenzofuranyl, O-benzofuranyl, O-benzofuranyl, O-dibenzofuranyl, O-dibenzofuranyl, O-benzofuranyl, O-dibenzofuranyl, O-dibenzo

09/518,464 - 10 - PL/2-21988/A

phen xythiinyl, O-pyrrolyl, O-imidazolyl, O-pyrazolyl, O-pyridyl, O-bipyridyl, O-triazinyl, O-pyrimidinyl, O-pyrazinyl, O-pyridazinyl, O-indolizinyl, O-isoindolyl, O-indolyl, O-indolyl, O-indazolyl, O-purinyl, O-quinolizinyl, O-quinolyl, O-isoquinolyl, O-phthalazinyl, O-naphthyridinyl, O-quinoxalinyl, O-quinazolinyl, O-cinnolinyl, O-pteridinyl, O-carbazolyl, O-carbolinyl, O-benzotriazolyl, O-benzoxazolyl, O-phenanthridinyl, O-acridinyl, O-perimidinyl, O-phenanthrolinyl, O-phenazinyl, O-isothiazolyl, O-phenothiazinyl, O-isoxazolyl, O-furazanyl or O-phenoxazinyl S-thienyl, S-benzo[b]thienyl, S-dibenzo[b,d]thienyl, S-thianthrenyl, S-furyl, S-furfuryl, S-2H-pyranyl, S-benzofuranyl, S-isobenzofuranyl, S-benzimidazolyl, S-benzothiazolyl, S-dibenzofuranyl, S-pyrazolyl, S-pyrazolyl, S-pyridyl, S-bipyridyl, S-triazinyl, S-pyrimidinyl, S-pyrazinyl, S-pyridazinyl, S-indolizinyl, S-isoindolyl, S-indolyl, S-indazolyl, S-purinyl, S-quinolizinyl, S-quinolyl, S-isoquinolyl, S-phthalazinyl, S-naphthyridinyl, S-quinoxalinyl, S-benzotriazolyl, S-benzotriazolyl, S-benzotriazolyl, S-benzotriazolyl, S-benzotriazolyl, S-phenanthridinyl, S-acridinyl, S-perimidinyl, S-phenanthrolinyl, S-phenazinyl, S-isothiazolyl, S-phenothiazinyl, S-isoxazolyl, S-furazanyl or S-phenoxazinyl,

or

 Q_3 and Q_4 together are a lactam, quinomethylene, hydantoin, acenaphthenequinone, azlactone, pyrazolonyl, barbituric acid, isoindolinone or isoindoline radical, with the proviso that

 Q_4 is not hydrogen and Q_3 is not a primary or secondary amine radical if R_3 is hydrogen, methoxy or hydroxyl and R_1 , R_2 and R_4 are hydrogen, and

 X_2 is thienyl, furyl, 2H-pyranyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, triazinyl, pyrazinyl, pyridazinyl, morpholin, piperidyl, piperazinyl, or is

$$\begin{bmatrix}
Q_5 & Q_6 \\
C - X_3 - C
\end{bmatrix}$$

in which

 X_3 is a single bond, C_6 - C_{24} arylene, thienylene, benzo[b]thienylene, dibenzo[b,d]thienylene, thianthrenylene, furylene, 2H-pyranylene, benzofuranylene, isobenzofuranylene, dibenzofuranylene, phenoxythinylene, pyrrolylene, imidazolylene, pyrazolylene, pyridylene, benzimidazolylene, benzothiazolylene, triazinylene, pyrimidinylene, pyrazinylene, pyridazinylene, indolizinylene, isoindolylene, indolylene, indazolylene, purinylene, quinolizinylene, quinolylene, isoquinolylene, phthalazinylene, naphthyridinylene, quinoxalinylene, quinazolinylene, cinnolinylene,

09/518.464

-11 -

PL/2-21988/A

pteridinylene, carbazolyl ne, carbolinylene, benzotriazolylen , benzoxazolylen , phenanthridinylene, acridinylene, perimidinylene, phenanthrolinylene, phenazinylene, isothiazolylene, phenothlazinylene, isoxazolylene, furazanylene or phenoxazinylene 1,2-phenylene, 1,3-phenylene, 1,4-phenylene or naphthylene, or a tetravalent polyether, polyimine, polyamine radical, or bi(C_6 - C_{24})arylene, bipyrrolylen, piperazinedionylen, quinodimethylene, imidazolonylen, isoindolinylen, and anthraquinoylfuranoylen, C_2 - C_{24} alkenylene, in which bi(C_6 - C_{24})arylene, bipyridylene, bipyrrolylen, piperazinedionylen, quinodimethylene, imidazolonylen, isoindolinylen, and anthraquinoylfuranoylen or C_2 - C_{24} alkenylene are optionally interrupted by one or more intermediate units selected from the group consisting of -CH=CH-, -CH=N-, -N=N-, -CR $_{44}$ R $_{42}$ -, -CO-, -COO-, -NR $_{42}$ CO-, -CONR $_{42}$ -, -O-, -SO-, -SO₂- or -NR $_{42}$ -,

in which

R₄₂ and R₄₄ independently of one another are hydrogen, C₁-C₂₄alkyl, C₅-C₁₂cycloalkyl, C₂-C₂₄alkenyl, C₆-C₂₄aryl, C₇-C₂₅aralkyl or thienyl, benzo[b]thienyl, dibenzo[b,d]thienyl, thianthrenyl, furyl, furfuryl, 2H-pyranyl, benzofuranyl, isobenzofuranyl, benzimidazolyl, benzothiazolyl, dibenzofuranyl, phenoxythiinyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, bipyridyl, triazinyl, pyrimidinyl, pyrazinyl, pyridazinyl, indolizlnyl, isoindolyl, indolyl, indazolyl, purinyl, quinolizinyl, quinolyl, isoquinolyl, phthalazinyl, naphthyridinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, carbazolyl, carbolinyl, benzotriazolyl, benzoxazolyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl or phenoxazinyl,

with the proviso that if R_1 , R_2 , R_3 , R_4 , R_{100} , R_{200} , R_{300} , R_{400} are all tert-butyl or all hydrogen, Q_5 and Q_6 are hydrogen, X_3 is not 1,4-phenylene, and

Q₅ and Q₆ independently of one another are hydrogen, C₆-C₂₄aryl, C₆-C₂₄aryloxy, C₁-C₂₄alkyl, C₁-C₂₄ alkoxy, C₁-C₂₄alkylthio, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkylthio, C₂-C₂₄alkenyl, C₆-C₂₄aryl, C₆-C₂₄aryloxy, C₆-C₂₄arylthio, thienyl, benzo[b]thienyl, dibenzo[b,d]thienyl, thianthrenyl, furyl, furfuryl, 2H-pyranyl, benzofuranyl, isobenzofuranyl, benzimidazolyl, benzothiazolyl, dibenzofuranyl, phenoxythiinyl, pyrrolyl, imidazolyl, pyrazolyl, pyridyl, bipyridyl, triazinyl, pyrimidinyl, pyrazinyl, pyridazinyl, indolizinyl, isoindolyl, indolyl, indazolyl, purinyl, quinolizinyl, quinolyl, isoquinolyl, phenathrydinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, carbazolyl, carbolinyl, benzotriazolyl, benzoxazolyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl or phenoxazinyl O-thienyl, O-benzo[b]thienyl, O-dibenzo[b,d]thienyl, O-thianthrenyl, O-furyl, O-furfuryl, O-2H-pyranyl, O-benzofuranyl, O-pyrrolyl, O-isobenzofuranyl, O-pyrazolyl, O-pyridyl, O-bipyridyl, O-triazinyl, O-pyrimidinyl, O-pyrazinyl, O-pyridazinyl, O-indolyl, O-indolyl, O-indazolyl, O-purinyl, O-quinolyl, O-quinolyl, O-isoquinolyl, O-isoquinolyl, O-indolyl, O-indazolyl, O-purinyl, O-quinolyl, O-quinolyl, O-isoquinolyl,

09/518,464 - 12 - PL/2-21988/A

O-phthalazinyl, O-naphthyridinyl, O-quinoxalinyl, O-quinazolinyl, O-cinnolinyl, O-pteridinyl, O-carbazolyl, O-benzotriazolyl, O-benzoxazolyl, O-phenanthridinyl, O-acridinyl, O-perimidinyl, O-phenanthrolinyl, O-phenanthrolinyl, O-phenanthrolinyl, O-phenanthrolinyl, O-phenanthrolinyl, O-phenathrolinyl, O-phenathrolinyl, O-phenathrolinyl, O-isoxazolyl, O-furazanyl or O-phenoxazinyl S-thienyl, S-benzo[b]thienyl, S-dibenzo[b,d]thienyl, S-thianthrenyl, S-furyl, S-furfuryl, S-2H-pyranyl, S-benzofuranyl, S-isobenzofuranyl, S-benzimidazolyl, S-benzothiazolyl, S-dibenzofuranyl, S-phenoxythiinyl, S-pyrrolyl, S-imidazolyl, S-pyrazolyl, S-pyridyl, S-bipyridyl, S-triazinyl, S-pyrimidinyl, S-pyrazinyl, S-pyridazinyl, S-isolndolyl, S-indolyl, S-indazolyl, S-purinyl, S-quinolizinyl, S-quinolyl, S-quinolyl, S-phenazolyl, S-phenazolyl, S-benzotriazolyl, S-benzoxazolyl, S-phenanthridinyl, S-acridinyl, S-perimidinyl, S-phenanthrolinyl, S-phenazinyl, S-isothiazolyl, S-phenothiazinyl, S-isoxazolyl, S-furazanyl or S-phenoxazinyl,

or

$$X_2$$
 is Q_7 $NH-X_4-HN$

in which

Q₇ and Q₈ independently of one another are Q₅ or Q₆, and

X₄ is C₆-C₂₄arylene, A₅-A₁₈heteroarylene, a polymethylidene or divalent polyether, polyimine, polyamine radical, or bi(C₆-C₂₄)arylene, bipyridylene, bipyrrolylen, piperazinedionylen, quinodimethylene, imidazolonylen, isoindolinylen, and anthraquinoylfuranoylen C₂-C₂₄alkenylene, in which bi(C₆-C₂₄)arylene, bipyridylene, bipyrrolylen, piperazinedionylen, quinodimethylene, imidazolonylen, isoindolinylen, and anthraquinoylfuranoylen or C₂-C₂₄alkenylene are optionally interrupted by one or more intermediate units selected from the group consisting of -CH=CH-, -CH=N-, -N=N-, -CR₄₄R₄₂-, -CO-, -COO-, -OCO-, -NR₄₂CO-, -CONR₄₂-, -O-, -S-, -SO₂- or -NR₄₂-,

or

$$X_2$$
 is $\begin{bmatrix} N-NH-X_4-HN-N \end{bmatrix}$ or $\begin{bmatrix} N-N \end{bmatrix}$.

PL/2-21988/A